

DERWENT-ACC-NO: 1998-205230

DERWENT-WEEK: 199818

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TITLE: Automotive air-conditioning
flammable refrigerant safety
valves shut off in system - has refrigerant and airflow
vehicle collision the event of refrigerant leakage or
set to pass with airflow shut-off/exhaust valve
vehicle contaminated flow to outside the

PATENT-ASSIGNEE: ANONYMOUS [ANON]

PRIORITY-DATA: 1998RD-0407040 (February 20, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	
LANGUAGE	PAGES	MAIN-IPC
RD 407040 A	002	March 10, 1998
	B60H 000/00	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
RD 407040A	N/A	
1998RD-0407040	February 20, 1998	

INT-CL (IPC): B60H000/00

ABSTRACTED-PUB-NO: RD 407040A

BASIC-ABSTRACT:

A safety system for flammable refrigerants in vehicle air-conditioning system includes a refrigerant detector, collision sensor, refrigerant shut-off valve, airflow shut-off/exhaust valve and ducting equipment.

In the event of a refrigerant leakage or collision being detected, the refrigerant and air-flow valves are actuated, resulting in both valves being shut off, with the airflow redirected to the exhaust opening of the valve, thus allowing the contaminated flow to escape to the outside of the vehicle. With the vehicle inoperative, the airflow shut-off/exhaust is placed in the exhaust position.

USE - Automobile air-conditioning systems.

ADVANTAGE - Capable of preventing flammable refrigerants reaching the vehicle passenger compartment in the event of leakage resulting from accident, vehicle collision etc.

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS: AUTOMOTIVE AIR CONDITION FLAMMABLE REFRIGERATE SAFETY SYSTEM

REFRIGERATE AIRFLOW VALVE SHUT EVENT
REFRIGERATE LEAK VEHICLE
COLLIDE AIRFLOW SHUT EXHAUST VALVE SET PASS
CONTAMINATE FLOW
VEHICLE

DERWENT-CLASS: Q12 X22

EPI-CODES: X22-J02E; X22-X;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1998-163010

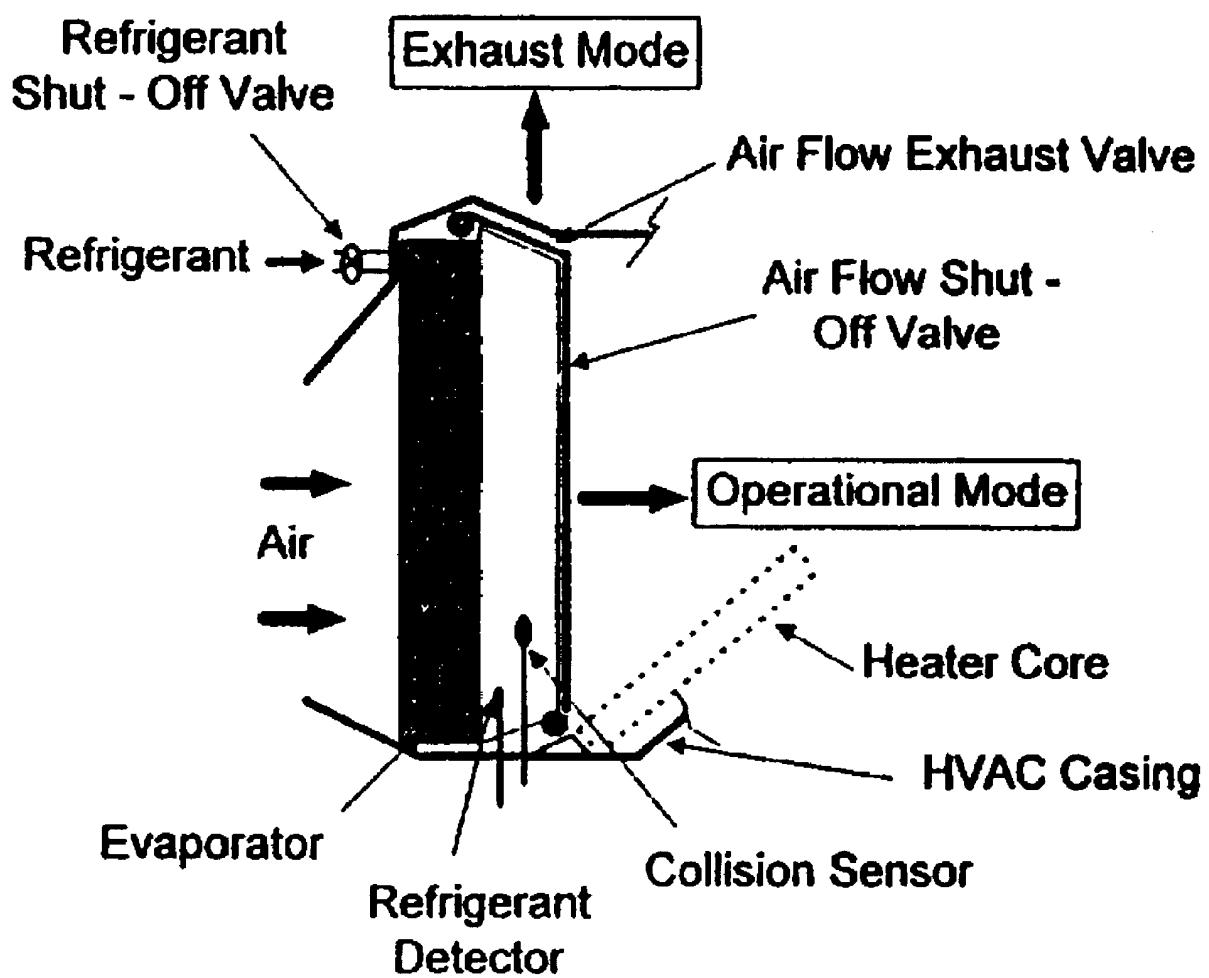


Figure 1 Air Flow Shut Off Valve, Sensor & Detector Assembly